# SRP-270 SERIES



#### 1 STATION PRINTER

## **Operator's Manual**

All specifications are subjected to change without notice

#### Warning - U.S.

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses, and can radiate radio frequency energy and if not installed and used according to the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

#### Notice - Canada

This Apparatus complies with class "A" limits for radio interference as specified in the Canadian department of communications radio interference regulations.

Get appareil est conforme aux normes class "A" d'interference radio tel que specifier par ministre canadien des communications dans les reglements d'interference radio.

#### Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or disconnect cables. This will help protect the printer against static electricity. If the printer is damaged by the static electricity, you should turn the printer OFF, and refer to your local service provider.

#### INTRODUCTION

The SRP-270 Roll Printers are designed for use with electronic instruments such as system ECR, POS, banking equipment, computer peripheral equipment, etc.

The main features of the printer are as follows:

- 1. High speed printing: 4.6 lines per seconds.
- 2 color dot-matrix printer.
- 3. RS-232C(SRP-270), RS-485 serial interface (SRP-270S), Parallel interface (SRP-270P), USB interface(SRP-270U).
- 4. The data buffer allows the unit to receive print data even during printing.
- Peripheral units drive circuit enables control of external devices such as cash drawer.

Please be sure to read the instruction in this manual carefully before using your new SRP-270 series.

NOTE: The power-outlet should be near the equipment and it should be easy accessible.

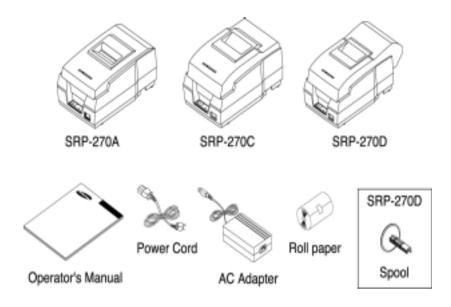
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# Chapter 1. Unpacking

### 1-1. Checking the Contents of the printer box

After unpacking the unit, check that all the necessary accessories are included in the package.

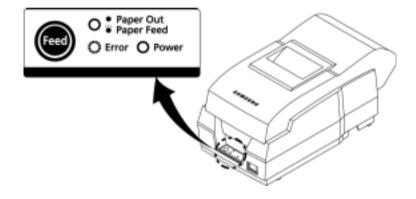


#### 1-2. Installing the printer

- Avoid locations in direct sunlight or subject to excessive heat.
- Avoid using or storing the printer in places subject to excessive moisture.
- Do not use or store the printer in a dusty or dirty area. Avoid places subject to intense vibration or shock.
- Choose a stable and flat place for proper use of the printer.
- Make sure that there is enough space around the printer so that it can be used easily.

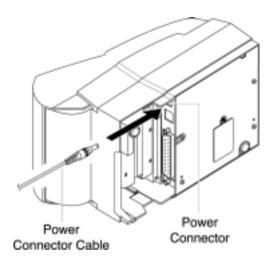
#### 1-3. Functions

- The power switch is used to turn the printer on and off.
- The FEED button is used to feed roll paper.
- The POWER light (green) is on when the printer is turned on and is off when the printer is turned off.
- The ERROR light (red) is on when the printer is in error state.
- The Paper Out light(red) is on when the printer is in paper end.



# Chapter 2. Connecting the cables

#### 2-1. Connecting the AC adapter to the printer

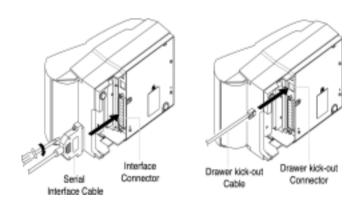


- 1). Make sure that the printer is turned off.
- 2). CHECK the label on the AC adapter to make sure the voltage required by the AC adapter matches that of your electrical outlet.
- 3). Plug the DC cord connector into the printer's power connector.
- 4). Plug the AC adapter power cord into the wall outlet.

# 2-2. Connecting Interface Cable and Drawer Cable to the printer

Connect the Host Computer(POS/ECR) to the printer using an interface cable that matches the specifications of the printer and the Host computer(POS/ECR). Be sure to use a drawer that matches the printer's specification.

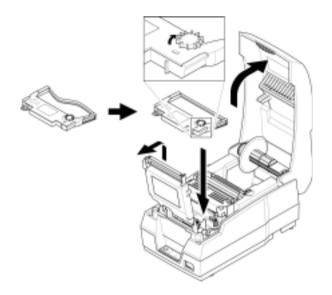
- 1). Turn off both the printer and the Host computer(POS/ECR).
- 2). Plug the serial interface cable connector into the printer's interface connector, then tighten the screws on both sides of the connector. In case of the parallel interface, squeeze the wire clips on the printer together until they lock in place on both sides of the connector.
- 3). Plug the drawer cable into the drawer kick-out connector on the back of the printer next to the interface connector. Do not connect a telephone line to the drawer kick-out connector; otherwise the printer and the telephone line may be damaged.
- 4). Turn on the Printer and Host computer(POS/ECR).



# Chapter 3. Installing the roll paper

#### 3-1. Ribbon Cassette Installation

- 1). Before inserting the ribbon cassette, turn the knob clockwise to prevent twisting the ribbon.
- 2). Insert the ribbon cassette as shown below and pay particular attention to the placement of the ribbon behind the Print Head.
- 3). During inserting the ribbon cassette, turn the knob clockwise again to make sure the ribbon moves freely in the cassette.



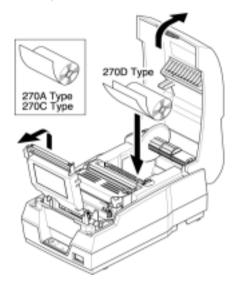
NOTE: Malfunctions and other problems may arise if other than pecified ribbon cassettes are used in the printer. The Warranty may be voide if other than specified ribbon cassettes are used. Contact your deale or place of purchase for more information about proper ribbon cassettes.

#### 3-2. Roll Paper Installation

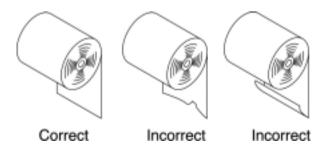
Be sure to use roll paper that matches the printer's specifications.

- When possible, make sure that the printer has no un-printed data. This data may be lost.
- 2). Open the printer cover and remove the used paper roll core if there is one.

" SRP-270 A/C: 1Ply Paper # SRP-270 D: 2Ply Paper

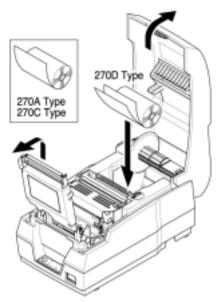


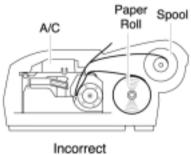
3). To use a new roll paper, unroll the paper and tear off the end of the paper correctly.

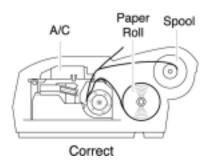


4). Put the roll paper on the paper holder and insert the paper in the printer.  $^{\circ}$  SRP-270 A/C : 1Ply Paper

# SRP-270 D : 2Ply Paper



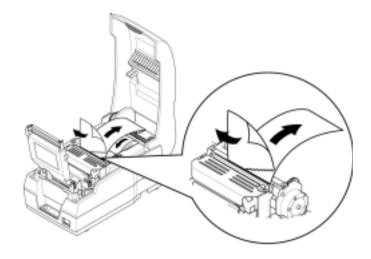




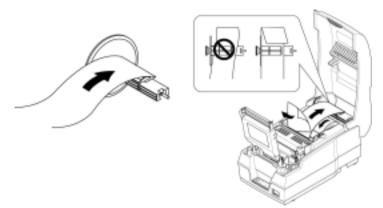
5) Insert the end of the roll paper straight into the paper inlet. The printer feeds the paper automatically and then the printer will cut the paper automatically(SRP-270C type series and SRP-270D type series). Refer to the attached label inside the cover.



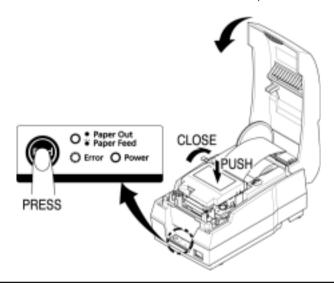
6). Tear off the paper as shown, if necessary.



7). Insert the end of the roll paper into the groove on the Roller-Pulley, warp the paper around it two or three times and load the Roller-Pulley onto the groove of the Case.



8). Push the auto-cutter cover as shown below and close the printer cover.



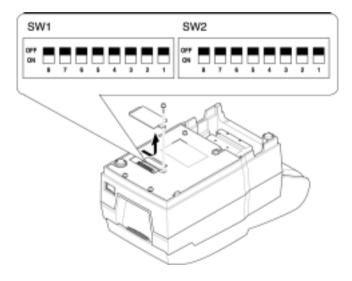
NOTE: Push upper face of the auto cutter cover for completely locking of it.

9). When the ERROR light is on and PAPER OUT light blinks, please press the FEED button. After that, the printer is ready for printing.

# Chapter 4. Setting the DIP switches

The DIP switches are located on the bottom of the printer. The DIP switches are used to set the printer to perform various functions. Follow these steps when changing DIP switch settings:

- 1. Turn the printer power switch off.
- 2. Turn the printer over and remove the dip switch cover.
- Move the DIP switches using tweezers or another narrow-ended tool.Switches are on when up and off when down in the figure below.
- 4. The new setting takes effect when you turn on the printer.



NOTE: Always change DIP switch settings when the printer is turned off. Changes made with the power on have no effect until you turn the printer off and then on again.

#### Serial Interface (RS-232C/RS-485) Specification

#### **DIP Switch 1 Setting**

SW	FUNCTION	ON	OFF	DEFAULT
1	Emulation	Defer to the f	ollowing table	OFF
2	Selection	Refer to the r	ollowing table	OFF
3	Auto-Cutter	Enable	Disable	OFF
4	FONT SPACE	2	3	OFF
5	Function for			-
6	service			-
7	Engineer			OFF
8	RESERVED			OFF

#### **Emulation mode selection**

SW - 1	SW – 2	MODE
OFF	OFF	Epson
OFF	ON	Citizen
ON	OFF	Star

#### Dip Switch 2 Setting

SW	FUNCTION	ON	OFF	DEFAULT
1	Data Receive Error	Print "?"	Ignore	OFF
2	Hexadecimal dump	YES	NO	OFF
3	Hand Shaking	XON/OFF	DTR/DSR	OFF
4	Word length	7 bits	8 bits	OFF
5	Parity check	Enable	Disable	OFF
6	Parity selection	EVEN	ODD	OFF
7	Baud Rate	Refer to the	OFF	
8	selection	Kelei to the	OFF	

#### **Baud rate selection**

Transmission speed	SW – 7	SW – 8
1200 baud	ON	ON
2400 baud	OFF	ON
4800 baud	ON	OFF
9600 baud	OFF	OFF

NOTE: When the word length is 7 bits, you can not parity check OFF status.

### Parallel/USB Interface Specification

#### **DIP Switch 1 Setting**

SW	FUNCTION	ON	OFF	DEFAULT
1	Emulation	Refer to the	OFF	
2	Selection	Refer to the	Tollowing table	OFF
3	Auto-Cutter	Enable	Disable	OFF
4	FONT SPACE	2	3	OFF
5	Function for			-
6	service			-
7	Engineer			OFF
8	RESERVED			OFF

#### **Emulation mode selection**

SW - 1	SW – 2	MODE
OFF	OFF	Epson
OFF	ON	Citizen
ON	OFF	Star

#### Dip Switch 2 Setting

SW	FUNCTION	ON	OFF	DEFAULT
1	Reserved	-	-	OFF
2	Hex Dump	YES	NO	OFF
3	Reserved	1	•	OFF
4	Reserved	-		OFF
5	Reserved	-	-	OFF
6	Reserved	-	-	OFF
7	Reserved	-	-	OFF
8	Reserved	-	-	OFF

# Chapter 5. Hexadecimal Dumping

This feature allows experienced users to see exactly what data is coming to the printer. This can be useful in finding software problems. When you turn on the hexadecimal dump function, the printer prints all commands and data in hexadecimal format along with a quide section to help you find specific commands.

To use the hexadecimal dump function, follow these steps:

- 1. After you make sure that the printer is off.
- 2. Set DIP switch 2-2 On.
- 3. Turn on the printer, then the printer enters the hexadecimal dump mode.
- 4. Run any software program that sends data to the printer. The printer will print all the codes it receives in a two-column format. The first column contains the hexadecimal codes and the second column gives the ASCII characters that correspond to the codes.

- A period(.) is printed for each code that no ASCII equivalent.
- During the hex dump, all commands except DLE EOT and DLE ENQ are disabled
- Insufficient print data to fill the last line can be printed by pressing the feed button
- When the printing finishes, turn off the printer, and then change DIP switch 2-2OFF.
- 6. Turn on the printer and then the hexadecimal mode is off.

### Chapter 6. The self test

The self-test checks whether the printer has any problems. If the printer does not function properly, contact your dealer.

- 1. Make sure paper roll has been installed properly.
- 2. Turn on the power while holding down the FEED button. The self-test begins.
- The self-test prints the current printer status, which provides the control ROM version and the DIP switch setting.
- 4. After printing the current printer status, self-test printing will print the following, and pause (The PAPER LED light blinks).

# Self-test printing. Please press the FEED button

- 5. Press the FEED button to continue printing. The printer prints a pattern using the built-in character set.
- 6. The self-test automatically ends after printing the following.

#### \*\* Character Test Completed \*\*

The printer is ready to receive data when it completes the self-test.

# Chapter 7. Code Table

The following pages show the character code tables. To find the character corresponding to a hexadecimal number, count across the top of the table for the left digit and count down the left column of the table for the right digit. For example, 4A = J.

	HEX	0		1	$\Box$	- 7	2		3	-	1		5		6		7	-	8		9		A		В		Ċ		D		Ē	F	$\neg$
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Page 0 ( PC437 : USA, Standard Europe) (International Character Set : USA)

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0	0000		128		144		160		176		192		208		224		240
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1	0001		129		145		161		177		193		209		225		241
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6	0110		134		150		166		182	_	198	·	214		230		246
7	0111	ç		ù		Q		À		Ã		Î		þ		د	
l '	0111		135		151		167		183		199		215		231		247
8	1000	ê		ÿ		ડ		0		L		Ϊ		Þ		۰	
L°	1000		136		152		168		184		200		216		232		248
9	1001	ë		Ö		8		4		r		7		Ú		"	
,	1001		137		153		169		185		201		217	L	233		249
	1010	è		Ü		_				7		Г		Û			
A	1010	_	138		154		170		186		202		218		234		250
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Page 2 ( PC 850 : Multilingual )

	HEX	8	9	Α	В	С	D	E	F
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-	0000	128	144	160	176	192	208	224	240
1	0001	ü	À	í	W	1	7	B	±
8	0001	129	145	161	177	193	209	225	241
2	0010	é	È	ó	20	т	т	Γ	≥
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4	0100	ã	õ	ñ	4	-	<b>L</b>	Σ	ſ
*	0100	132	148	164	180	196	212	228	244
5	0101	à	ò	Й	١	+	P	σ	J
3	0101	133	149	165	181	197	213	229	245
6	0110	Á	Ú	<u>a</u>	H	h	r	μ	÷
•	0110	134	150	166	182	198	214	230	246
7	0111	\$	ù_	٥	٦	<b>       </b>	+	τ	≈
	0111	135	151	167	183	199	215	231	247
8	1000	ê	Ì	ن	٦	L	+	Φ	0
	1000	136	152	168	184	200	216	232	248
9	1001	Ê	٥	٥	4	r	٦	θ	•
	1001	137	153	169	185	201	217	233	249
A	1010	è	υ	¬	1	4	۲	υ	٠
	1010	138	154	170	186	202	218	234	250
В	1011	Í	¢	1/2	٦	T		δ	
	1011	139	155	171	187	203	219	235	251
С	1100	Ô	£	4	٦	<b>   </b>		œ	n
_		140	156	172	188	204	220	236	252
D	1101	ì	שׁמ	i	J		<b>I</b>	ø	2
		141	157	173	189	205	221	237	253
E	1110	Χ	Pt	«	<b>-</b>	+	1		
_		142	158	174	190	206	222	238	254
F	1111	A	6	»	٦	_			SP
		143	159	175	191	207	223	239	255

Page 3 ( PC 860 : Portuguese )

	HEX		8		9		Α		В		C		D	19.70	E		F
HEX	BIN		000		001	1	010		011	1	100	1	101	1	110	1	111
0	0000	Ç	128	É	144	-	160	200	176	L	192	1	208	a	224		24
1	0001	ü	129	È	145	1	161	***	177	T	193	+	209	B	225	±	24
2	0010	é	130	Ê	146	Ó	162	***	178	T	194	T	210	Γ	226	2	24
3	0011	ā	131	ô	147	ú	163	T	179	F	195	L	211	π	227	≤	24
4	0100	Â	132	Ë	148	-	164	1	180	=	196	L	212	Σ	228	ſ	24
5	0101	à	133	Ϊ	149	۵	165	٦	181	+	197	٢	213	σ	229	1	24
6	0110		134	û	150	3	166	4	182	-	198	r	214	μ	230	÷	24
7	0111	ç	135	ù	151		167	ר	183	F	199	+	215	τ	231	~	24
8.	1000	ê	136	¤	152	Î	168	٦	184	L	200	+	216	Φ	232	٥	24
9	1001	ë	137	Ô	153	٦	169	4	185	r	201	7	217	θ	233	•	24
A	1010	è	138	U	154	7	170	1	186	7	202	٢	218	Ω	234	·	25
В	1011	ï	139	¢	155	1/2	171	٦	187	T	203		219	δ	235		25
С	1100	î	140	£	156	*	172	J	188	F	204	***	220	00	236	n	25
D	1101	-	141	Ù	157	3	173	J	189	-	205		221	Ø	237	2	25:
E	1110	À	142	Û	158	«	174	٦	190	+	206	1	222		238	-	254
F	1111	§	143	f	159	<b>»</b>	175	٦	191	T	207		223		239	SP	25

Page 4 ( PC 863 : Canadian - French )

0 0000	F
0   0000   128	1111
0 0000   128	
1   0001   129   145   161   177   193   209   225     2   0010   6	240
129	:
2   0010   130   146   162   178   194   210   226     3   0011   8   6   ú	241
130	:
3   0011   131   147   163   179   195   211   227     4   0100   132   148   164   180   196   212   228     5   0101   133   149   165   181   197   213   229     6   0110   134   150   166   182   198   214   230     7   0111   135   151   167   183   199   215   231     8   1000   136   152   168   184   200   216   232     9   1001   137   153   169   185   201   217   233     A   1010   138   154   170   186   202   218   234     B   1011   139   155   171   187   203   219   235     C   1100   140   156   172   188   204   220   236     D   1101   141   157   173   189   205   221   237     228   127   128   127   128     228   127   128   129   129     228   180   196   212   228     228   180   196   212   228     5   0101   138   154   156   172   188   204   220   236     6   0110   1   141   157   173   189   205   221   237     7   0111   141   157   173   189   205   221   237     8   1011   1   141   157   173   189   205   221   237     8   1011   1   141   157   173   189   205   221   237     8   1011   1   141   157   173   189   205   221   237     8   1011   1   141   157   173   189   205   221   237     8   1011   141   157   173   189   205   221   237     9   1011   1   141   157   173   189   205   221   237     9   1011   1   141   157   173   189   205   221   237     9   1011   141   157   173   189   205   221   237     9   1011   141	242
131	:
4       0100       132       148       164       180       196       212       228         5       0101       à       ò       N       +       +       r       σ       J         6       0110       à       û       2       +       +       r       μ       ±         7       0111       c       û       Q       r       +       +       τ       π       ±	243
5 0101 a	
5       0101       133       149       165       181       197       213       229         6       0110       a       û       a       166       182       198       214       230         7       0111       c       û       Q       167       183       199       215       231         8       1000       136       152       168       184       200       216       232         9       1001       137       153       169       185       201       217       233         A       1010       138       154       170       186       202       218       234         B       1011       139       155       171       187       203       219       235         C       1100       140       156       172       188       204       220       236         D       1101       141       157       173       189       205       221       237	244
6 0110 a û a î î a î î î î î î î î î î î î î î	
6 0110 134 150 166 182 198 214 230  7 0111	245
7 0111	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	246
8 1000	:
8 1000	247
9 1001 e 137   153   169   184   200   216   232   233   234   234   234   234   234   234   235   23	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	248
A 1010 e U	
A     1010     138     154     170     186     202     218     234       B     1011     1     139     155     171     187     203     219     235       C     1100     1     £     1     188     204     220     236       D     1101     1     Ø     1     173     189     205     221     237	249
B   1011   1   1   1   1   1   1   1   1	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	250
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
C 1100 1 140 156 172 188 204 220 236  D 1101 1 141 157 173 189 205 221 237	251
D 1101 1 141 157 173 189 205 221 237	
D 1101 1 141 157 173 189 205 221 237	252
141 157 173 189 205 221 237	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	253
-   -	254
F 1111 A F F X T T T T T T T T T T T T T T T T T	Ρ
[ 1111	255

Page 5 ( PC 865 : Nordic )

	HEX		8		9		A		В	(	C		D		E		F
HEX	BIN	10	000	10	01	10	10	10	)11	11	00	11	01	11	110	1	111
0	0000	Ç	128	É	144	á	160		176	L	192	ð	208	Ó	224	_	240
1	0001	ü	129	æ	145	í	161		177	上	193	Đ	209	β	225	±	241
2	0010	é	130	Æ	146	ó	162		178	, —	194	Ê	210	Ô	226	_	242
3	0011	â	131	ô	147	ú	163	1	179	F	195	Ë	211	Ò	227	3/4	243
4	0100	ä	132	Ö	148	ñ	164	4	180		196	È	212	õ	228	1	244
5	0101	à	133	ò	149	Ñ	165	Á	181	+	197	€	213	Õ	229	§	245
6	0110	å	134	û	150	a	166	Â	182	ã	198	Í	214	μ	230	÷	246
7	0111	ç	135	ù	151	Ō	167	À	183	Ã	199		215	þ	231	,	247
8	1000	ê	136	ÿ	152	ż	168	©	184	L	200	Ϊ	216	р	232	0	248
9	1001	ë	137	Ö	153	®	169	4	185	F	201		217	Ú	233		249
Α	1010	è	138	Ü	154	ſ	170	I	186	<u>JL</u>	202	· r	218	Û	234	•	250
В	1011	ï	139	Ø	155	1/2	171	า	187	T	203		219	Ù	235	1	251
С	1100	î	140	£	156	1/4	172	7)	188	ŀ	204		220	ý	236	3	252
D	1101	ì	141	Ø	157	i	173	¢	189	=	205	;	221	Ý	237	2	253
E	1110	Ä	142	×	158	«	174	¥	190	#	206	Ì	222	_	238		254
F	1111	Å	143	f	159	>>	175	٦	191	¤	207		223	•	239		SP 255

Page 19 ( PC 858 : Euro )

	ASCII code (hexadecimal)												
Country	Нех	23	24	40	5B	5C	5D	5E	60	7B	7,C	7D	7E
Ŭ	Dec	35	36	64	91	92	93	94	96	123	124	125	126
U.S.A.	•	#	\$	@	, [	١	1	٨	`	1	-	1	~
Franc	е	#	\$	à	0	ç	§	٨		é	ù	è	
Germ	nany	#	\$	§	Ä	Ö	Ü	٨	`	ä	Ö	ü	В
U.K.		£	\$	@	1	١	]	٨	` `	{	1	)	~
Denm	nark I	#	\$	@	Æ	Ø	Å	٨	`	æ	Ø	å	~
Swed	len .	#	٥	É	Ä	Ö	Å	Ü	é	ä	Ö	å	ü
Italy		#	\$	@	0	١	é	٨	ù	à	Ò	è	ì
Spain	,	Pt	\$	@	ı	Ñ	i	٨			ñ	}	~
Norw	ау	#	۵	É	Æ	Ø	Å	Ü	é	æ	Ø	å	ü
Denn	nark II	#	\$	É	Æ	Ø	Å	Ü	é	œ	Ø	å	ü

#### **International Character**

# Chapter 8. Control Commands List

Control code	Hexadecimal code	Function
<ht></ht>	09	Horizontal tab
<lf></lf>	0A	Print and line feed
<cr></cr>	0D	Print and carriage return
<dle> <eot></eot></dle>	10 04 n	Real-time status transmission
n		
<dle> <enq></enq></dle>	10 05 n	Real-time request to printer
n		
<esc> <sp> n</sp></esc>	1B 20 n	Set right-side character spacing
<esc> ! n</esc>	1B 21 n	Select print modes
<esc> % n</esc>	1B 25 n	Select/Cancel user-defined
		character set
<esc> &amp; y c1</esc>	1B 26 y c1 c2	Define user-defined characters
c2		
<esc> * m nL</esc>	1B 2A m nL nH	Select bit-image mode
nH		
<esc> - n</esc>	1B 2D n	Turn underline mode on/off
<esc> 2</esc>	1B 32	Select default line spacing
<esc> 3 n</esc>	1B 33 n	Set line spacing
<esc> &lt;</esc>	1B 3C	Return home
$\langle ESC \rangle = n$	1B 3D n	Set peripheral device
<esc> ? n</esc>	1B 3F n	Cancel user-defined characters
<esc> @</esc>	1B 40	Initialize printer
<esc> D n1 ~</esc>	1B 44 00	Set horizontal tab position
nK		
<esc> E n</esc>	1B 45 n	Turn emphasized mode on/off
<esc> G n</esc>	1B 47 n	Turn double-strike mode on/off
<esc> J n</esc>	1B 4A n	Print and feed paper
<esc> K n</esc>	1B 4B n	Print and Reverse feed
<esc> R n</esc>	1B 52 n	Select an international character
		set
<esc> U n</esc>	1B 55 n	Turn unidirectional printing
		mode
<esc> a n</esc>	1B 61 n	Select justification

Control code	Hexadecimal	Function
	code	
<esc> c 3 n</esc>	1B 63 33 n	Select paper sensor to output
		paper end signals
<esc> c 4 n</esc>	1B 63 34 n	Select paper sensor to stop
		printing
<esc> c 5 n</esc>	1B 63 35 n	Enable/Disable panel button
<esc> d n</esc>	1B 64 n	Print and feed n lines
<esc> p m t1</esc>	1B 70 m t1 t2	Generate pulse
t2		
<esc> t n</esc>	1B 74 n	Select character code table
<esc> r n</esc>	1B 72 n	Select print color
<esc> m</esc>	1B 6D	Execute partial cut
<esc> { n</esc>	1B 7B n	Turn on/off upside-down printing
		mode
<esc> e n</esc>	1B 65 n	Print and reverse feed n lines
<gs> I n</gs>	1D 49 n	Transmit printer ID
<gs> V m</gs>	1D 56 m	Select cut mode and cut paper
<gs> V m n</gs>	1D 56 m n	
<gs> a n</gs>	1D 61 n	Enable/Disable Automatic status
		back
<gs> r n</gs>	1D 72 n	Transmit status

#### CITIZEN mode

Control code	Hexadecimal code	Function
<ff> "n"</ff>	0C + n	"n" -lines paper feed command
<lf></lf>	OA	Paper feed command
<s0></s0>	0E	Enlarged character command
<si></si>	0F	Normal character command
<dc1></dc1>	11	Initial set command
<dc2></dc2>	12	Inverted character command
<dc3></dc3>	13	Red color print command
<can></can>	18	Clear command
<esc> "P" &lt;0&gt;</esc>	1B, 50, 00	Paper partial cut command
<esc> "P" &lt;1&gt;</esc>	1B, 50, 01	Paper partial cut command
<esc> "-" "n"</esc>	1B, 2D, n	Underline command

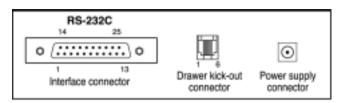
Control code	Hexadecimal code	Function
<esc> "1"</esc>	1B, 31	1/9 inch paper feed preset command
<esc> "2"</esc>	1B, 32	2/9 inch paper feed preset command
<esc> "C" "n"</esc>	1B, 43, n	Page length set command
<esc> "f" "1"</esc>	1B, 66, 01	Form feed command
<sub></sub>	1A	Second drawer drive command
<fs></fs>	1C	First drawer quick drive command
<esc><bel> n1</bel></esc>	1B, 07, n1, n2	Drive pulse setting command for
n2		the first drawer
<bel></bel>	07	First drawer drive command

#### STAR mode

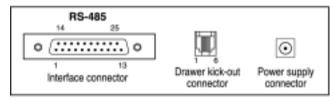
Control code	Hexadecimal code	Function
<esc> "C" n</esc>	1B 43 n	Set page length at n lines
<esc> "R" n</esc>	1B 52 n	Select international character set.
<esc> "M"</esc>	1B 4D	Select 9×7(Half dots) character size
<so></so>	0E	Select expanded character mode
<si></si>	OF	Select upside-down
<dc2></dc2>	12	Cancel upside-down character
<dc4></dc4>	14	Cancel expanded character mode(Default setting)
<esc> "W" "1" <esc> "W" &lt;1&gt;</esc></esc>	1B 57 31 1B 57 01	Select expanded character mode
<esc> "W" "0" <esc> "W" &lt;0&gt;</esc></esc>	1B 57 30 1B 57 00	Cancel expanded character mode (Default setting)
<esc> "4"</esc>	1B 34	Red color print selection
<esc> "5"</esc>	1B 35	Red color print deselection
<esc> "E"</esc>	1B 45	Emphasized print mode selection
<esc> "F"</esc>	1B 46	Emphasized print mode deselection(Default setting)
<esc> "a" n</esc>	1B 61 n	Feed paper n lines

Control code	Hexadecimal code	Function	
<esc><bel>n1</bel></esc>	1B 07 n1 n2	Adjust drive pulse width for	
n2		peripheral unit(Default setting)	
<bel></bel>	07	Deferred drive command "A" for	
		peripheral unit 1	
<fs></fs>	1C	Immediate drive command "B"	
		for peripheral unit 1	
<sub></sub>	1A	Immediate drive command for	
		peripheral unit 2	
<em></em>	19	Immediate drive command for	
		peripheral unit 2	
<can></can>	18	Cancel print data in buffer	
<esc> "@"</esc>	1B 40	Initialize printer	
<esc> "e" "0"</esc>	1B 65 30	FEED switch valid	
<esc> "e" &lt;0&gt; <esc> "e" "1"</esc></esc>	1B 65 00	(Default setting)	
<esc> "e" "1"</esc>	1B 65 31	FEED switch invalid	
<esc> "e" &lt;1&gt;</esc>	1B 65 01		
<esc> U n</esc>	1B 55 n	Set or Cancel uni-direction mode	
<esc> - n <esc> "z" "1"</esc></esc>	1B 2D n	Set or Cancel underline mode	
<esc> "z" "1"</esc>	1B 7A 31	Set 1/6 inch line feed	
<esc> "z" &lt;1&gt;</esc>	1B 7A 01		
<ff></ff>	OC	Page feed (form feed)	
<esc> d &lt;0&gt;</esc>	1B 64 00	Partial cut	
<esc> d &lt;1&gt; <esc> "-" "1"</esc></esc>	1B 64 01	Partial cut	
	1B 5F 31	Coloct averline made	
<esc> "-" &lt;1&gt;</esc>	1B 5F 01	Select overline mode	
<esc> "-" &lt;1&gt; <esc> "-" "0"</esc></esc>	1B 5F 30	Cancel overline mode	
<esc> "-" &lt;0&gt; <esc> "e" "1"</esc></esc>	1B 5F 00		
	1B 65 31	Set the control panel switch	
<esc> "e" &lt;1&gt; <esc> "e" "0"</esc></esc>	1B 65 01	invalid	
	1B 65 30	Set the central panel switch walld	
<esc> "e" &lt;0&gt; <esc> "f" "1"</esc></esc>	1B 65 00	Set the control panel switch va	
	1B 66 31	Sot the ON LINE switch invalid	
<esc> "f" &lt;1&gt; <esc> "f" "0"</esc></esc>	1B 66 01	Set the ON LINE switch invalid	
	1B 66 30	Set the ON LINE switch valid	
<esc> "f" &lt;0&gt;</esc>	1B 66 00	Set the ON LINE SWITCH Vallu	

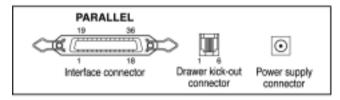
# Appendix A Connectors



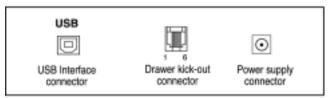
SRP-270 Connector (Serial Interface: RS-232C)



SRP-270 Connector (Serial Interface: RS-485)



SRP-270 Connector (Parallel Interface)



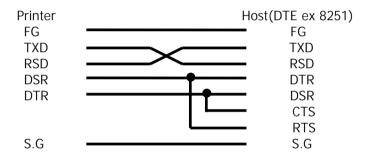
SRP-270U Connector (USB Interface)

#### Interface Connector

Serial Interface (RS-232C)

Pin No.	Signal name	Direction	Function
1	FG	-	Frame Ground
2	TXD	Output	Transmit Data
3	RXD	Input	Receive Data
6	DSR	Input	Data Set Ready
7	SG	-	Signal Ground
20	DTR	Output	Data Terminal Ready

#### Serial Communication Interface (Example)



#### Serial Interface (RS-485)

Pin No.	Signal Name	Direction	Function
1	FGND	-	Frame Ground
2	SD2	Output	0 10 1
3	SD1	Output	Send Data
4	RD2	Input	
5	RD1	Input	Receive Data
7	SGND	-	Signal Ground
8	DR2	Output	Same as DTR(RS-232)
9	DR1	Output	Salle as DTK(K3-232)
10	CS2	Input	Same as DSR(RS-232)
11	CS1	IIIput	Sallie as DSK(KS-232)

Parallel Interface (IEEE-1284)

Pin No.	Source	Compatibil ity Mode	Nibble Mode	Byte Mode
1	Host	nStrobe	HostClk	HostClk
2	Host / Printer	Data 0 (LSB)	-	Data 0 (LSB)
3	Host / Printer	Data 1	-	Data 1
4	Host / Printer	Data 2	-	Data 2
5	Host / Printer	Data 3	-	Data 3
6	Host / Printer	Data 4	-	Data 4
7	Host / Printer	Data 5	-	Data 5
8	Host / Printer	Data 6	-	Data 6
9	Host / Printer	Data 7 (MSB)	-	Data 7 (MSB)
10	Printer	nAck	PtrClk	PtrClk
11	Printer	Busy	PtrBusy /Data3,7	PtrBusy
12	Printer	Perror	AckDataReq /Data2,6	AckDataReq
13	Printer	Select	Xflag /Data1,5	Xflag
14	Host	nAutoFd	HostBusy	HostBusy
15	-	NC	NC	NC
16	-	GND	GND	GND
17	-	FG	FG	FG
18	Printer	Logic-H	Logic-H	Logic-H
19~30	-	GND	GND	GND
31	Host	nInit	nInit	nInit
32	Printer	nFault	nDataAvail /Data0,4	nDataAvail
33	-	GND	ND	ND
34	Printer	DK_Status	ND	ND
35	Printer	+5V	ND	ND
36	Host	nSelectIn	1284-Active	1284-Active

#### **USB** Interface

Pin No.	Signal Name	Assignment	Function
		(Color)	
Shell	Shield	Drain Wire	Frame Ground
1	VBUS	Red	Host Power
2	D-	White	Data Line(D-)
3	D+	Green	Data Line(D+)
4	GND	Black	Signal Ground

#### **Drawer Connector**

Pin No.	Signal name	Direction
1	Frame ground	-
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick-out drive signal 2	Output
6	Signal ground	-

\* SRP-270 Series Model Listing Model Name : SRP-27xyz

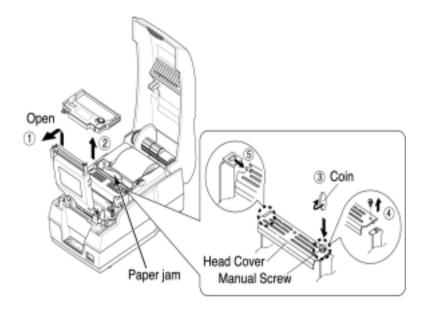
Х		Υ		Z	
0	Ivory	Α	Basic	Blank	RS-232C
5	Dark Gray	С	Basic	S	RS-485
			+ Auto cutter	Р	IEEE-1284
		D	Basic	U	USB
			+ Auto cutter		
			+ Spool		

# Appendix B Specification

Printer	Printing method	Serial impact dot matrix		
Tillitei	Number of head pin	9 wires		
	Printing direction	Bi-directional		
	Lines per second	Approx. 4.6 LPS		
	Characters per line	40 (9*7), 33(9*9)		
Ribbon	Ribbon type	Cartridge type (ERC-38 Black/Red)		
KIDDOIT	Color	Black & Red		
	Ribbon life	Approx. Black: 1.5 Million characters		
	Kibbott ille	Red: 0.75 Million characters		
Paper	Paper type	Roll paper		
1 apci	Paper width	W76mm ± 0.5mm (2.99" ± 0.22")		
	Roll diameter	Max. \( \phi 80mm \( (3.14") \)		
	Thickness	0.06mm ~ 0.085mm (0.002" ~ 0.003")		
Adapter	Overall dimensions	120mm * 63mm * 33mm (4.71" * 2.47" * 1.29")		
riduptoi	Weight	215gr (0.5 lbs)		
	Types	AD-270 Free Voltage (50Hz ~ 60Hz)		
Auto	Cutter type	Gillotine type		
Cutter	Cutting width	Max. 85 mm		
outto.	Cutting thickness	Max. 0.1mm		
ETC	Data buffer	4k bytes		
210	Overall dimension	SRP-270A/AS/AP/AU:		
	O Vol'all all location	160(W)*249(D)*130(H)mm(6.3"*9.8"*5.12")		
		SRP-270C/CS/CP/CU:		
		160(W)*249(D)*149(H)mm(6.3"*9.8"*5.87")		
		SRP-270D/DS/DP/DU:		
		160(W)*294(D)*160(H)mm(6.3"*11.57"*6.3")		
	Weight	Weight (printer only) / Weight (with box &		
		accessories):		
		SRP-270A TYPE: 2.2 Kg (4.9 lbs) / 3.2 Kg (7.1 lbs)		
		SRP-270C TYPE: 2.5 Kg (5.5 lbs) / 3.5 Kg (7.7 lbs)		
		SRP-270D TYPE: 2.6 Kg (5.7 lbs) / 3.6 Kg (7.9 lbs)		
	Rating	DC 24 V, 1.0 A		
	Power consumption	Standby: 8 W, Operation: 24 W		
	EMI	FCC class A, CE		
	Safety standards	UL/CSA, TUV		
	Reliability	Printer MCBF: 7,500,000 lines (Except print head		
-	Operation	life) Print head life: 300,000,000 Dots		
	Operation	0 ~ 40 (32 ~ 104 )		
	temperature Operation humidity	30% ~ 80%		
	Storage temperature	-5 ~ 50 (23 ~ 122 )		
		,		
ļ	Storage humidity	10% ~ 95%		

# Appendix C Removing Jammed Paper

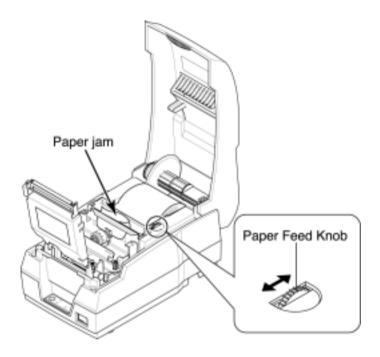
- 1) Open the printer cover
- 2) Raise the auto cutter unit by lifting the knob lock.
- 3) Remove the ribbon cassette.
- 4) Loosen the manual screw.
- 5) Remove the head cover.



CAUTION: The printer head becomes very hot during printing.

Allow it to be cool before you reach into the printer.

- 6) Move the print head carriage to the reverse direction of paper jam. By pushing on the side of the print head as shown in the illustration.
- 7) Remove the jammed paper by rotating the paper-feed knob.



- 8) Replace the head cover and secure it with screw.
- 9) Replace the ribbon cassette and roll paper, then close the printer cover.

NOTE: If you are troubled with reloading the paper, the cutter blade may not be in its normal position. Insert a screw driver into the hole at the bottom side of auto cutter unit as shown followed picture, and turn the gear inside the cutter unit to move the cutter blade to its normal position.

